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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/668,390	(09/23/2003	Scott R. Bickham	SP02-180	SP02-180 2469	
22928	7590	11/02/2005		EXAMINER		
CORNING SP-TI-3-1	INCORP	PORATED		RUDE, TIMOTHY L		
CORNING, NY 14831				ART UNIT	PAPER NUMBER	
	•			2883		

DATE MAILED: 11/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)	
	10/668,390	BICKHAM ET AL.	
Office Action Summary	Examiner	Art Unit	
	Timothy L. Rude	2883	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	s
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	J. ely filed the mailing date of this commun O (35 U.S.C. § 133).	
Status			
3) Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		its is
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 15-20 is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1-14 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on 23 September 2003 is/a Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner	relection requirement. r. nre: a)⊠ accepted or b)□ object drawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.	121(d).
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No d in this National Stag	e
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20030923, 20040315.	4) Interview Summary (Paper No(s)/Mail Dai 5) Notice of Informal Pa 6) Other:		

DETAILED ACTION

Election/Restrictions

Applicant's election without traverse of species C in the reply filed on 08 August 2005 is acknowledged.

Claims 15-20 are withdrawn from further consideration pursuant to 37 CFR

1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 08 August 2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 9-14 are rejected under 35 U.S.C. 102(b) as being anticipated by Antos et al (Antos) 5,999,679 provided by Applicant.

As to claim 1, Antos discloses an optical fiber, comprising: a refractive index profile having a first moat with a negative delta (.DELTA.2), a second moat with a negative delta (.DELTA.4), and the refractive index profile is selected to provide a

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negative total dispersion at 1550 nm, a kappa value, defined as total dispersion divided by dispersion slope at 1550 nm, of less than 75 nm [col. 6, lines 25-66].

As to claim 2, Antos discloses the fiber of claim 1 further comprising a central core having a positive delta (.DELTA.1), and a ring surrounding the first moat having a positive delta (.DELTA.3) [col. 6, lines 25-66].

As to claim 3, Antos discloses the fiber of claim 1 wherein the total dispersion at 1550 nm is more negative than about -40 ps/nm/km [col. 6, lines 25-66].

As to claim 4, Antos discloses the fiber of claim 1 wherein the total dispersion at 1550 nm is more negative than -40 and less negative than -400 ps/nm/km [col. 6, lines 25-66].

As to claim 5, Antos discloses the fiber of claim 1 wherein the total dispersion at 1550 nm is more negative than about -140 ps/nm/km [col. 6, lines 25-66].

As to claim 6, Antos discloses the fiber of claim 1 wherein the dispersion slope at 1550 nm is less than -0.75 and greater than -8.50 ps/nm.sup.2/km [col. 6, lines 25-66].

As to claim 7, Antos discloses the fiber of claim 1 wherein kappa at 1550 nm is between about 40 and 75 nm [col. 8, lines 39, 40, and 65-67].

As to claim 9, Antos discloses the fiber of claim 1 wherein a central core has a delta (.DELTA.1) of less than 2.0% [col. 6, lines 25-66].

As to claim 10, Antos discloses the fiber of claim 9 wherein an outer core radius (R1) of the central core is between about 1.2 and 3.1 microns [col. 3, lines 30-40, and Figure 1].

As to claim 11, Antos discloses the fiber of claim 9 wherein the central core has an alpha (a) of less than about 6 [col. 4, lines 27-35].

As to claim 12, Antos discloses the fiber of claim 1 wherein delta (.DELTA.2) of the first moat is less than -0.2% [col. 6, lines 25-66].

As to claim 13, Antos discloses the fiber of claim 12 wherein an outer radius (R2) of the first moat is located between about 4.5 and 10.6 microns [Figure 1].

As to claim 14, Antos discloses the fiber of claim 1 wherein delta (.DELTA.4) of the second moat is less than -0.05% [col. 6, lines 25-66].

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of

the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein

were made absent any evidence to the contrary. Applicant is advised of the obligation

under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g)

prior art under 35 U.S.C. 103(a).

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Antos.

As to claim 8, Antos discloses the fiber of claim 1.

Antos does not explicitly disclose the fiber includes a pin array bend loss at 1550

nm of less than 9 dB.

Please note: Applicant's recitation is merely a limitation as to desired low loss

performance in a device claim that would be obvious to one of ordinary skill. Obviously

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one would desire low loss for many applications. Furthermore, Applicant has provided no structure to support this <u>performance</u> limitation in a <u>device</u> claim other than the structure and other limitations rejected above. Examiner considers this performance limitation to be met by the structural limitations and other limitations rejected above, since examiner cannot find a discrete enabling disclosure in the instant Specification that would lead one to believe that one of ordinary skill in the art would not know to use the above fiber (limitations rejected above) per applicant's enabling disclosure to achieve the obviously desirable low claimed bend loss. In other words, this obvious <u>performance</u> limitation is considered to not further limit the <u>structure</u> of the <u>device</u> in view of the above rejected claim limitations, or it is considered not enabled by Applicant's Specification.

Antos teaches the desire to use an outside diameter greater than about 125 μm to reduce loss due to bending [Applicant's bend loss at 1550 nm of less than 9 dB].

Antos is evidence that workers of ordinary skill in the art would find the reason, suggestion, or motivation to comprise Applicant's claimed device with a minimum outside diameter to achieve a pin array bend loss at 1550 nm of less than 9 dB as an optimization of a results effective variable [MPEP 2144.05, II, B].

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the invention of Antos with a minimum outside diameter of Antos to achieve a pin array bend loss at 1550 nm of less than 9 dB as an optimization of a results effective variable.

Conclusion

References cited but not applied are relevant to the instant Application. IDS references USPAT 6,349,163 and 6,317,551 are also considered relevant.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy L. Rude whose telephone number is (571) 272-2301. The examiner can normally be reached on Mon-Thurs.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Timothy L Rude Examiner Art Unit 2883